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June 9, 2003

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Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Group Art Unit 2634

Re: U.S. Utility Patent Application
Appl. No. 09/632,855; Filed: August 4, 2000
For: **Wireless Local Area Network (WLAN) Using Universal Frequency Translation Technology Including Multi-Phase Embodiments**
Inventors: David F. SORRELLS *et al.*
Our Ref: 1744.0630001

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Sir:

Transmitted herewith for appropriate action are the following documents:

1. Supplemental Information Disclosure Statement;

2. A listing of the cited documents on Form PTO-1449 *(4 pages)*;

3. Copies of the cited documents (AE49-AI49; AL19-AM19; AO56-AR56; AA50-AI50; AJ20-AM20; AN57-AQ57; AA51-AF51; AJ21-AM21; AJ22); and

4. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael Q. Lee
Attorney for Applicants
Registration No. 35,239

Enclosures

::ODMA\MHODMA\SKGF_DC1;143065;1

PE
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PATENT & TRADEMARK OFFICE 2600

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

David F. SORRELLS *et al.*

Appl. No. 09/632,855

Filed: August 4, 2000

For: **Wireless Local Area Network (WLAN) Using Universal Frequency Translation Technology Including Multi-Phase Embodiments**

Confirmation No.: 2274

Art Unit: 2634

Examiner: Chin, Stephen

Atty. Docket: 1744.0630001

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Supplemental Information Disclosure Statement

Commissioner for Patents
Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The reference numbering on the accompanying Form PTO-1449 for this Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Information Disclosure Statement filed on July 25, 2002 in connection with the above-captioned application.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

Applicants provide the following comments regarding the documents:

Document AE49 is a co-owned patent which is directed to related subject matter.

Document AF49 was cited in an Office Action in co-pending U.S. Patent Application Serial No. 09/489,675, filed January 24, 2000, entitled "Bar Code Scanner Using Universal Frequency Translation Technology for Up-Conversion and Down-Conversion," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 6,091,940, which was cited in Applicants' Information Disclosure Statement filed on July 25, 2002 in connection with the above-captioned application.

Documents AG49-AI49 and AA50-AC50 were cited in an Office Action in co-pending U.S. Patent Application Serial No. 09/476,092, filed January 3, 2000, entitled "Analog Zero IF FM Decoder and Embodiments Thereof, Such as the Family Radio Service," directed to related subject matter.

Documents AL19, AM19 and AD50 were cited in an International Search Report in PCT Appl. No. PCT/US01/08969, filed March 22, 2001, entitled, "Integrated Frequency Translation and Selectivity with a Gain Control Functionality, and Applications Thereof," directed to related subject matter. Also cited in said Search Report were U.S. Patent Nos. 4,888,557 and 5,801,654 and PCT Publication Nos. WO 96/02977 and WO 96/39750, which were cited in Applicants' Information Disclosure Statement filed on July 25, 2002 in connection with the above-captioned application.

Document AJ20 was cited in an Office Action in co-pending Japanese Patent Application Serial No. 2000-577,764, filed June 21, 2000, entitled "Applications of Universal Frequency Translation,". Also cited in said Office Action was Japanese Patent

Publication No. 58-133004, which was cited in Applicants' Information Disclosure Statement filed on July 25, 2002 in connection with the above-captioned application.

Documents AK20, AL20, AJ21, AK21, AL21, AP56 and AQ56 were cited in an International Search Report in PCT Appl. No. PCT/US01/12086, filed April 13, 2001, entitled, "Frequency Converter," directed to related subject matter. Also cited in said International Search Report was U.S. Patent No. 5,844,449, which was cited in Applicants' Information Disclosure Statement filed on July 25, 2002 in connection with the above-captioned application.

Document AE50 was cited in an Office Action in co-pending U.S. Patent Application Serial No. 09/376,509, filed August 18, 1999, entitled "Method and System for Ensuring Reception of a Communications Signal," directed to related subject matter.

Documents AM21 and AJ22 were cited in an Official Notice of Rejection in co-pending Japanese Patent Application No. 2000-577,765, filed June 21, 2000, entitled "Method and System for Ensuring Reception of a Communications Signal," directed to related subject matter. Also cited in said Rejection were Japanese Patent Publication Nos. 56-114451, 8-32556 and 8-139524, which were cited in Applicants' Information Disclosure Statement filed on July 25, 2002 in connection with the above-captioned application.

Documents AF50-AH50, AA51, AC51 and AF51 were cited in and Office Action in co-pending U.S. Patent Application Serial No. 09/476,330, filed January 3, 2000, entitled "Multi-Mode, Multi-Band Communication System," directed to related subject matter.

Document AI50 was cited in an Office Action in co-pending U.S. Patent Application Serial No. 09/567,963, filed May 10, 2000, entitled "Frequency Synthesizer Using Universal Frequency Translation Technology," directed to related subject matter.

Documents AB51, AD51 and AE51 were cited in an Office Action in co-pending U.S. Patent Appl. No. 09/526,041, filed March 14, 2000, entitled, "DC Offset, Re-radiation, and I/Q Solutions Using Universal Frequency Translation Technology," directed to related subject matter.

The other documents in the PTO-1449 do not fall within the above categories.

It is noted that some of these documents could be classified in more than one of the above categories.

This statement should not be construed as a representation that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below.

☒ 1. This Information Disclosure Statement is being filed before the mailing of a first Office Action. No statement or fee is required.

☐ 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance.

☐ a. I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

□ b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

□ c. Attached is our Check No. 32067 in the amount of $_____ in payment of the fee under 37 C.F.R. § 1.17(p).

□ 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. A separate Petition to the Group Director, requesting consideration of this Information Disclosure Statement, is concurrently submitted herewith, along with our Check No. _____ in the amount of $ _____ in payment of the fee under 37 C.F.R. § 1.17(i).

□ a. I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

□ b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

□ 4. The document(s) was/were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found

by the foreign office is provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.

☒ 5. Concise explanations of the relevance of non-English language documents AJ20-AL20, AK21, AM21 and AJ22 appear below:

Document AJ20 (JP 60-130203) appears to describe a frequency converter. A copy of the English language translation of document AJ20 is enclosed as document AO56 on the attached PTO-1449.

Document AK20 (DE 196 27 640 A1) appears to describe a mixer. Document AK20 is a counterpart German application of U.S. Patent No. 5,680,078, which was cited in Applicants' Information Disclosure Statement filed on July 25, 2002 in connection with the above-captioned application.

Document AL20 (EP 0 087 336 A1) appears to describe a transistorized mixer for microwave transmitters. The granted version of document AL20 is cited as document AM20 (EP 0 087 336 B1) and contains an English-language version of the claims.

Document AK21 (FR 2 669 787 A1) appears to describe a symmetrical super high frequency mixer. A copy of the English-language abstract of document AK21 is enclosed as document AR56 on the attached PTO-1449.

Document AM21 (JP 61-30821) appears to describe a squelch device. A copy of the English-language abstract of document AM21 is enclosed as document AP57 on the attached PTO-1449.

Document AJ22 (JP 5-327356) appears to describe a frequency converter. A copy of the English-language abstract of document AJ22 is enclosed as document AQ57 on the attached PTO-1449.

☐ 6. Copies of the documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. _____, filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael Q. Lee
Attorney for Applicants
Registration No. 35,239

Date: June 9, 2003

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FORM PTO-1449

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.0630001	APPLICATION NO. 09/632,855
APPLICANT David F. SORRELLS *et al.*	
FILING DATE August 4, 2000	GROUP 2634

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AE49	6,421,534 B1	07/2002	Cook *et al.*			08/18/1999
	AF49	6,330,244 B1	12/2001	Swartz *et al.*			01/16/1998
	AG49	4,384,357	05/1983	deBuda *et al.*			
	AH49	4,470,145	09/1984	Williams			
	AI49	5,600,680	02/1997	Mishima *et al.*			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL19	EP 0 254 844 A2	02/1988	EP	H03D	7/00	N/A
	AM19	EP 0 632 577 A1	01/1995	EP	H03D	7/16	N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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	AO	56	Translation of Japanese Patent Publication No. 60-130203, 3 pages (July 11, 1985- Date of publication of application).
	AP	56	Razavi, B., "A 900-MHz/1.8-Ghz CMOS Transmitter for Dual-Band Applications," *Symposium on VLSI Circuits Digest of Technical Papers*, IEEE, pp. 128-131 (1998).
	AQ	56	Ritter, G.M., "SDA, A New Solution for Transceivers," *16th European Microwave Conference*, Microwave Exhibitions and Publishers, pp. 729-733 (September 8, 1986).
	AR	56	DIALOG File 351 (Derwent WPI) English Language Patent Abstract for FR 2 669 787, 1 page (May 29, 1992- Date of publication of application).

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA50	5,606,731	02/1997	Pace *et al.*			
	AB50	5,870,670	02/1999	Ripley *et al.*			
	AC50	6,314,279 B1	11/2001	Mohindra			06/29/1998
	AD50	5,633,815	05/1997	Young			
	AE50	3,246,084	04/1966	Kryter			
	AF50	3,702,440	11/1972	Moore			
	AG50	3,767,984	10/1973	Shinoda *et al.*			
	AH50	3,852,530	12/1974	Shen			
	AI50	4,220,977	09/1980	Yamanaka			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ20	JP 60-130203	07/1985	JP	H03D	7/00	Yes (Doc. AO56)
	AK20	DE 196 27 640 A1	01/1997	DE	H03D	7/12	No
	AL20	EP 0 087 336 A1	08/1983	EP	H03D	7/12	No
	AM20	EP 0 087 336 B1	07/1986	EP	H03D	7/12	No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN	57	Akos, D.M. *et al.*, "Direct Bandpass Sampling of Multiple Distinct RF Signals," *IEEE Transactions on Communications*, IEEE, Vol. 47, No. 7, pp. 983-988 (July 1999).
	AO	57	Patel, M. *et al.*, "Bandpass Sampling for Software Radio Receivers, and the Effect of Oversampling on Aperture Jitter," *VTC 2002*, IEEE, pp. 1901-1905 (2002).
	AP	57	English-language Abstract of Japanese Patent Publication No. 61-030821, 1 Page (February 13, 1986- Date of publication of application).
	AQ	57	English-language Abstract of Japanese Patent Publication No. 05-327356, 1 Page (December 10, 1993 - Date of publication of application).

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APPLICANT: David F. SORRELLS *et al.*	
FILING DATE: August 4, 2000	GROUP: 2634

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA51	5,016,242	05/1991	Tang			
	AB51	5,937,013	08/1999	Lam *et al.*			01/03/1997
	AC51	6,014,551	01/2000	Pesola *et al.*			07/16/1997
	AD51	6,073,001	06/2000	Sokoler			05/08/1998
	AE51	6,085,073	07/2000	Palermo *et al.*			03/02/1998
	AF51	6,400,963 B1	06/2002	Glöckler *et al.*			05/21/1999

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ21	EP 0 789 449 A2	08/1997	EP	H03D	7/12	N/A
	AK21	FR 2 669 787 A1	05/1992	FR	H03D	7/14	No
	AL21	GB 2 324 919 A	11/1998	GB	H03D	7/18	N/A
	AM21	JP 61-30821	02/1986	JP	H04B	1/10	No

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ATTY. DOCKET NO. 1744.0630001	APPLICATION NO. 09/632,855
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ22	JP 5-327356	12/1993	JP	H03D	7/00	No

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